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**(54) METHOD OF AND APPARATUS FOR CONTROLLING TRANSMISSION POWER IN A
COMMUNICATION SYSTEM**

(57) Abstract:

A forward link power control mechanism in a remote station (6) measures reverse link power control bits which are transmitted by one or more base stations (4a, 4b, 4n) on a forward traffic channel (10a). At the remote station (6) the reverse link power control bits from multiple base stations (4a, 4b, 4n) or multiple signal paths are measured, combined, and filtered to yield an improved measurement of the forward link signal quality. The reverse link (12a, 12b) power control bits which are deemed unreliable are omitted from use in the power control loop. The remote station (6) generates a set of forward link power control bits in accordance with the measurements and transmits these bits to all base stations (4a, 4b, 4n) in communication with the remote station (6). Each base station (4a, 4b, 4n) adjusts its gain of the forward traffic channel (10a) in accordance to its measurement of the forward link power control bit. The gains of the forward traffic channels (10a) of the base stations (4a, 4b, 4n) are corrected periodically so that erroneous reception of the forward link power control bits by the base stations do not accumulate.

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